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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,995	11/20/2003	James A. Proctor JR.	TAN-2-1514.01.US	7655
24374 7590 10/17/2008 VOLPE AND KOENIG. P.C.			EXAMINER	
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PHILADELPHIA, PA 19103			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/717.995 PROCTOR ET AL. Office Action Summary Examiner Art Unit Un Cho 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 July 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 30-38 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 30-38 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 5/5/2008

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Information Disclosure Statement

 The information disclosure statement (IDS) submitted on 5/5/2008 has been placed in record and considered by the examiner.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 30 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al. (US 6,470,001 B1) in view of Chen et al. (US 2005/0054366 A1).

Regarding claim 30, Kim discloses receiving a reverse link signal from a field unit (Kim: Col. 4, lines 5 – 8 wherein the base station receives a channel request via a reverse dedicated control channel); determining a gross timing offset with respect to reverse link channels from other field units sharing the same reverse link logical channel (Kim: Col. 4, lines 15 – 37 wherein the base station estimates a round time delay (RTD) based on received data from a plurality of terminals).

However, Kim does not specifically disclose calculating a metric associated with the received reverse link signal and selectively determining based on said metric whether said base station should control the alignment of

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said field unit. In an analogous art, Chen remedies the deficiencies of Kim by disclosing such limitation on Page 6, Paragraph 0068, lines 1 – 30 wherein a power control processor (Fig. 1, element 12) uses the reverse link quality measurement in determining the correct power control command and determines whether said base station should control the alignment of the mobile station based on the power control command received from the mobile station.

Therefore, it would have been obvious to one of ordinary skill in the art at the

time the invention was made to provide the technique of Chen to the system of Kim in order to provide an improved method for controlling the transmission power in a plurality of base stations simultaneously communicating with a mobile station in soft handoff.

Regarding claim 31, Chen discloses transmitting a message to other base stations whether said base station is going to control the alignment of said field unit (Chen: Page 6, Paragraph 0066, lines 1 – 19 wherein the base station controller (Fig. 1, element 2) receives the power control commands from base stations (Fig. 1, elements 4 and 6) and once the power control processor determines the correct power control command it is routed back to the base stations (Fig. 1, elements 4 and 6) accordingly).

Regarding claim 32, Kim discloses reporting said timing offset in the form of a timing command (Kim: Col. 5, lines 19 – 26).

Regarding claim 33, Kim discloses causing said reverse link signal to be orthogonally aligned with the signals from said at least one other field unit on the Application/Control Number: 10/717,995

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reverse link logical channel (Kim: Col. 3, lines 11 – 16 wherein orthogonal codes are used on a reverse link for both user identification and to improve the performance of the reverse link).

Regarding claim 34, Chen discloses determining a power level of the reverse link signal; and providing feedback of the power level to the field unit in the form of a power command or a power message.

Regarding claim 35, Chen discloses wherein said base station does not control the alignment of said field unit (Chen: Page 6, Paragraph 0066, lines 1 – 19 wherein the base station forwards the power control command to the power control processor (Fig. 1, element 12) and that is where the correct power control command is generated and fed back to the base stations and ultimately to the mobile station).

Regarding claim 36, Chen discloses a power control processor (Fig. 1, element 12) that transmits the power control command to the appropriate base station so that the power control command gets to the mobile station (Chen: Page 6, Paragraph 0065, lines 1 – 11). Chen does not specifically disclose transmitting a message to other base stations that said base station is not going to control the alignment of said field unit. However, it would have been obvious to one of ordinary skill in the art to understand that if one of the base stations does not receive the power control command from the power control processor then the base station that did not receive will not control the alignment of said field unit.

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 Claims 37 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of Chen as applied to claim 36 above, and further in view of Savolainen (US 6,438,377 B1).

Regarding claim 37, the combination of Kim and Chen does not specifically disclose wherein said determination of said base station not to control said alignment is based on at least one of the following criteria: (a) a metric of the transmission path between the field unit and at least one of the other base stations exceeds a threshold for a predetermined time span, (b) a metric of the transmission path between the field unit and at least one of the other base stations exceeds a threshold relative to a metric of a transmission path between said base station and the field unit for a predetermined time span. (c) a metric of the transmission path between said base station and the field unit drops below an absolute metric, and (d) a metric of the transmission path between at least one of the other base stations and the field unit exceeds an absolute metric. In an analogous art, Savolainen remedies the deficiencies of the combination Kim and Chen by disclosing such limitation in Col. 5, lines 1 – 42 wherein a metric of the transmission path between said base station and the field unit drops below an absolute metric. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Savolainen to the modified system of Kim and Chen in order to provide an

efficient and reliable handover to the best neighboring cell while the number of handovers is minimized.

Regarding claim 38, Chen discloses wherein the metric includes at least one of the following: (a) power. (b) signal-to-noise ratio (SNR), (c) variance of the power, (d) variance of the SNR, (e) between the orthogonally aligned path an non-orthogonally aligned paths between the given field unit and said base station and said other base stations, relative ratio of the (i) power, (ii) SNR, (iii) variance of the power, or (iv) variance of the SNR, (f) bit error rate, and (g) energy per chip divided by the interference density (Ec/Io) (Chen: Page 6, Paragraph 0066, lines 1 – 19 and Paragraph 0068, lines 1 – 15).

Response to Arguments

5. Applicant's arguments with respect to claims 30 - 38 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un Cho whose telephone number is (571)272-7919.

The examiner can normally be reached on 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/ Supervisory Patent Examiner, Art Unit 2617

/U. C./ Examiner, Art Unit 2617